

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended) A ~~system dry solid particle mixture~~ for equalizing radial and lateral force variations at the a tire/road footprint of a pneumatic tire/wheel assembly comprising:

a pneumatic tire/wheel assembly; and

a dry solid particle mixture positioned within the tire/wheel assembly, wherein

(a) the particles forming said particle mixture are freely flowable and non-tacky at ~~elevated~~ temperatures up to 150 degrees C;

(b) said particle mixture is essentially devoid of liquid material;

(c) said particle mixture comprises a plurality of sets of particles, wherein each set consists essentially of particles of a predetermined size or size range;

(d) said particle mixture exhibits a multimodal particle size distribution; and

(e) said particles are in a size range substantially between 60-270 U.S. screen size.

Claim 2 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said particle mixture comprises spheres of a first diameter and spheres of a second diameter.

Claim 3 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said particle mixture comprises a first set of particles having a first size range and a second set of particles having a second size range, the particle size distribution of said particle mixture being characterized by at least two peaks.

Claim 4 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said particle mixture comprises a first set of particles having a first size range, a second set of particles having a second size range, a third set of particles having a third size range, wherein the particle size ranges do not overlap.

Claim 5 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said particles forming said particle mixture have a specific gravity greater than 1.

Claim 6 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said particles forming said particle mixture have sufficient hardness to prevent them from degrading while tumbling in said tire.

Claim 7 (currently amended) ~~A particle mixture according to~~ The system of claim 1, wherein said mixture comprises polymeric resin particles.

Claim 8 (currently amended) The system of ~~particle mixture according to~~ claim 7, wherein said particle mixture includes substantially 70% by weight of said polymeric resin and 28% by weight of a cellulose material.

Claim 9 (currently amended) The system of ~~particle mixture according to~~ claim 7, wherein said polymeric resin is a thermoset material.

Claim 10 (currently amended) A dry solid particle mixture for equalizing radial and lateral force variations at the tire/road footprint of a pneumatic tire, wherein

- (a) the particles forming said particle mixture are freely flowable and non-tacky at ~~elevated~~ temperatures up to 150 degrees C;
- (b) said particle mixture is essentially devoid of liquid material;
- (c) said particle mixture comprises a plurality of sets of particles, wherein each set consists essentially of particles of a predetermined size or size range; and
- (d) said particle mixture exhibits a multimodal particle size distribution; and
- (e) said mixture comprises polymeric resin particles wherein said polymeric resin is a thermoplastic material.

Claim 11 (currently amended) A dry solid particle mixture for equalizing radial and lateral force variations at the tire/road footprint of a pneumatic tire, wherein

- (a) the particles forming said particle mixture are freely flowable and non-tacky at ~~elevated~~ temperatures up to 150 degrees C;

- (b) said particle mixture is essentially devoid of liquid material;
- (c) said particle mixture comprises a plurality of sets of particles, wherein each set consists essentially of particles of a predetermined size or size range; and
- (d) said particle mixture exhibits a multimodal particle size distribution; and
- (e) one set of particles is made of fiberglass.

Claim 12 (currently amended) The A particle mixture according to claim 11, wherein said fiberglass particles are in a size range substantially between 130-200 U.S. screen size.

Claim 13 (currently amended) The system of A particle mixture according to claim 1, further comprising a lubricant material.

Claim 14 (currently amended) The system of A particle mixture according to claim 13, wherein said lubricant particles are in a size range substantially between 200-325 U.S. screen size.

Claim 15 (currently amended) The system of A particle mixture according to claim 13, wherein said particle mixture comprises 15-30% lubricant material by weight.

Claim 16 (currently amended) The system of A particle mixture according to claim 13, wherein said lubricant is talc.

Claim 17 (currently amended) The system of A particle mixture according to claim 13, wherein said lubricant is corn starch.

Claim 18 (currently amended) The system of A particle mixture according to claim 13, wherein said lubricant is an anti-agglomeration agent.

Claim 19 (canceled).

Claim 20 (canceled).